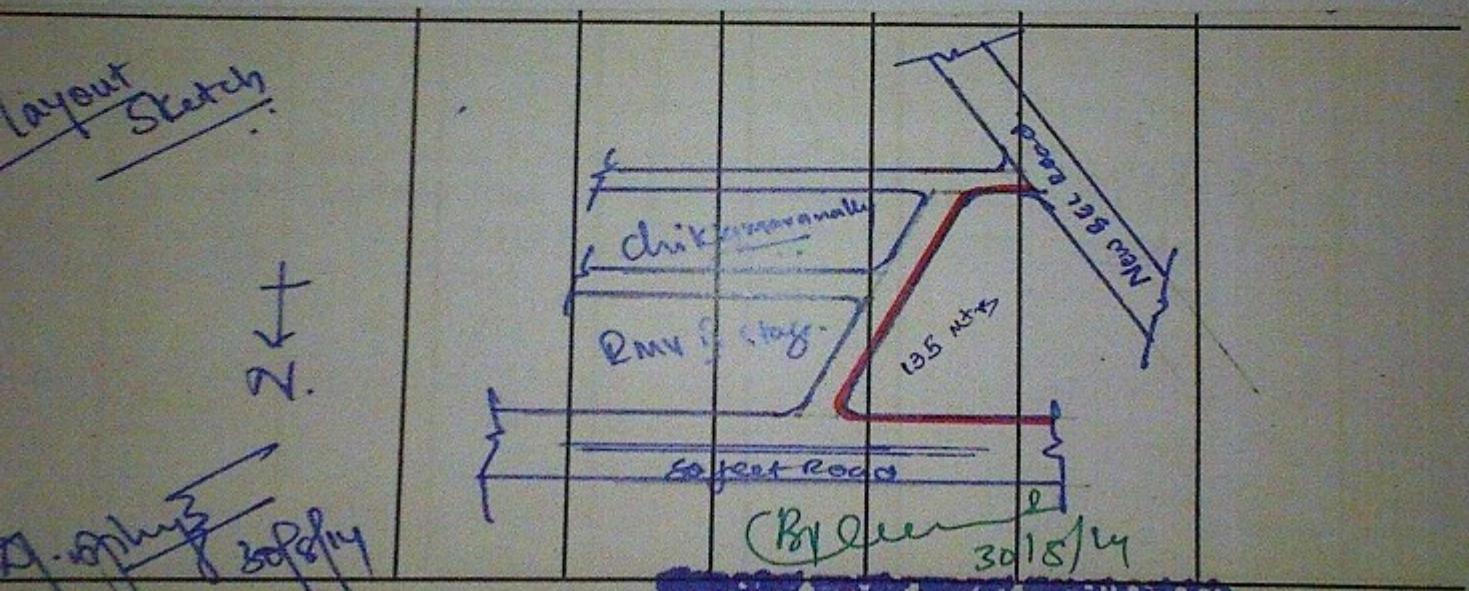
Constn. of Rcc drain and culverts in Chikkamaranahally Layout main and cross roads in ward no 18

Layout Sketch :



30/8/14

30/8/14

BRUHATH BENGALURU MAHANAGARA PALIKE

Name of the Work :- Construction of RCC drain & culverts in Chikkamaranahalli Layout main road & cross road in ward-18

DETAILED ESTIMATE

Ward No.18 **Est Cost: Rs. 15.00 Lakhs**

Sl No	Description of work	Unit	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
1	Earthwork excavation for foundation of buildings, Culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m. In depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications. P No.5 Ino 2.4 PWDSR - 2013-14								
	Drain (CC)	Cum	1	135.00	1.50	1.20	243.00		
	For culverts		2	7.00	2.00	1.20	33.60		
	(BR+A/Wtg) (Rs.140.50+11.24)						276.60	151.74	41971.28
2	Providing and laying in position plain cement concrete of mix M 7.5 with OPC cement @ 180 kgs using 40mm and down size graded granite metal CA @ 0.85 cum and FA @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM machinery, curing complete as per specifications. Specification No.KBS 4.1.4.2 P No. 12 I no 4.3 PWDSR - 2013-14								
	Concrete Drain	Cum	1	135.00	1.50	0.15	30.38		
	For culverts	Cum	2	7.00	2.00	0.15	4.20		
	(BR+A/Wtg) (Rs.3873.00+317.85)						34.58	4290.85	148356.14
3	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. specification No. KBS 4.6.2 P No 17. I No 4.31 PWDSR - 2013-14								
	For concrete drain	Sqm	4	135.00	1.00		540.00		
	For culverts	Sqm	(4) 8	7.00	1.00		28.00	56.00	
	(BR+A/Wtg) (Rs.251.00+20.00)		8				568.00	271.00	153928.00

596 161516.00

Administrative Sanctioned for Rs 15,00,000-00

(Rs. Fifteen Lakhs only

is accorded under head POW-4-16

Registered at Sl. No. 167 Page No. 45

Subject to conditions contained in enclosed memo No. ACCS/AS/167/13-14 Dt. 30/10/13

Sl No	Description of work	Unit	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
4	Providing an laying in position reinforced cement concrete of nominal mix M 20 with OPC @ 320 kgs with 20mm and down size graded granite metal, CA @ 0.878 cum and FA @ 0.459 cum and super palstisizer @ 3 ltr confirming to is 9103-1999 reaffirmed - 2008 machine mixed, concrete laid in layers not exceeding 15 cms thick, vibraited for all works in foundation plinth and ground floor level for retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, butresses, string or lacing courses, parapets, coping, bed blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No.KBS 4.1, 4.6 P No.13, I No. 4.11 PWDSR - 2013-14								
		Cum							
	for side walls (Drain)		2	135.00	1.00	0.15	40.50		
	Bottom slab (Drain)		1	135.00	1.00	0.20	27.00		
	for side walls (culverts)		4	7.00	1.00	0.20	5.60		
	Bottom slab (culverts)		2	7.00	1.00	0.20	2.80		
	(BR+A/Wtg) (Rs.5222.00+417.75)						75.90	5639.75	428057.03
5	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete of size 450 x 200 x 400 mm P 24 I NO.5.29.1 PWDSR 2013-14								
	(BR+A/Wtg) (Rs.293.00+23.45)	Nos					300.00	316.45	94935.00
6	Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with bindig wire and anchoring to the adjining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per spedification No. KBS 4.6.3 Page No.19 I No.4.46 PWDSR - 2013-14								
	60 kgs per Cum of RCC Qnty		Qnty	Rate					
	(BR+A/Wtg) (Rs.6834.00+546.70)	Qtl			Qntls		45.00	7380.70	332131.50
7	Providing and laying position reinforced cement concrete covering slabs madeout of mix 1:1.50:3 with 20mm and down size granite metal mixed concrete laid in layers not exceeding 15cms vibrated including cost of materials, labor curing providing and laying in position including transportation complete as per specification. (SLAB THICKNESS OF 10CMS)								
	APPROVED DATA RATE	Sqm	1	135.00	1.20		162.00	1427.15	231198.30

Sl No	Description of work	Unit	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
8	Conveying the excavated earth by private vehicle including loading and unloading charges up to 10 kms with all lead and lift. 276.60								26227.212
		Cum		Qty wide item no (1)			357.60	94.82	33908.00
9	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plasered concrete surfaces, with materials, labour compete as per specifications. Specification No.KRBS 800.3 MORT & H Specification No.800. P No. 195. I no 24.1 PWDSR - 2013-14								
	(BR+A/Wtg) (Rs 48.00+3.85)	Sqm		135.00	0.30		40.50	51.84	2099.52
									29400.00
10	For Third Party Inspection 2 %							4102.04	4015.23
11	Miscellaneous and unforessen Charges							Total	1500000.00

(Rupees Fifteen Lakhs only)

CERTIFICATE:

1 The work spot has been inspected me and the work is found to be necessary.
2 The estimate is prepared as per KPWD S.R Bangalore circle for the year 2013-14.
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

Assistant Engineer
Ward 18

Asst. Exe. Engineer
Hebbal Sub-Dn BBMP

Executive Engineer,
Hebbal Division BBMP

ADMINISTRATIVELY SANCTIONED FOR
Rs. .....
Under .....
.....
Registered as EE( ) vide No .....
Subject to Conditions in Enclosed
Memo No ..... Dt .....

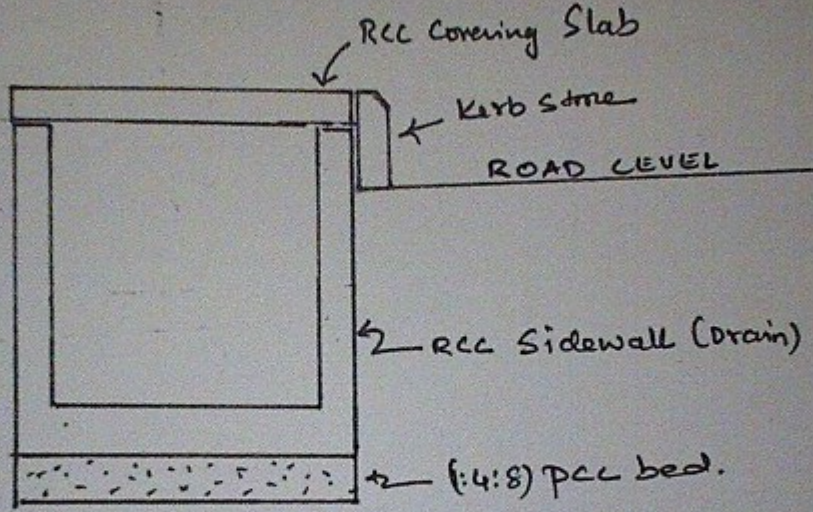
JE / AE

Exe. Engineer

TECHNICALLY SANCTIONED FOR
Rs. Fifteen lakhs Only
P-1771 BBMP-2013-14
Under .....
Registered as EE(H) vide No 91
Subject to conditions in enclosed memo
No TS/91/13-14 Dt. 30/10/2013

JE/AE

E.E(H)



R.C.C. DRAIN.

AE-18

Asst. Executive Engineer
Hebbal Sub-Division
Queens Road,
Bhruthi Bangalore Mahanagara Palike
Bangalore - 52